

Appln No. 09/706,360

Amdt date November 28, 2005

Reply to Office action of August 26, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A personal area network, comprising:

a device having a first wireless transceiver; and
an adapter having a second wireless transceiver in communication with the first wireless transceiver, ~~[[and]]~~ a plug capable of mating to a jack coupled to a local cable-based network backbone, and an interface adapted to facilitate communication between the second wireless transceiver and the local backbone.

2. (Original) The personal area network of claim 1 wherein the first and second wireless transceivers each comprises a Bluetooth transceiver.

3. (Canceled)

4. (Currently Amended) The personal area network of claim ~~[[3]]~~ 1 wherein the interface provides an interface between the second wireless transceiver and the local backbone comprising a packet based network.

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5. (Currently Amended) The personal area network of claim 4 wherein the interface provides an interface between the second wireless transceiver and the packet based network comprising a twisted pair telephone line.

6. (Original) The personal area network of claim 5 wherein the interface provides an interface between the second wireless transceiver and the packet based network using a protocol for home communications over a twisted pair telephone line.

7. (Original) The personal area network of claim 4 wherein the interface provides an interface between the second wireless transceiver and the packet based network comprising an Ethernet line.

8. (Original) The personal area network of claim 4 wherein the interface provides an interface between the second wireless transceiver and the packet based network comprising a digital subscriber line.

9. (Original) The personal area network of claim 1 wherein the plug is capable of mating to an RJ-11 telephone jack.

10. (Original) The personal area network of claim 1 wherein the plug is capable of mating to an RJ-45 Ethernet jack.

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11. (Original) The personal area network of claim 1 wherein the device comprises a telephony device.

12. (Original) The personal area network of claim 11 wherein the telephony device comprises a telephone.

13. (Original) The personal area network of claim 12 further comprising a second telephone having a third wireless transceiver in communication with the second wireless transceiver.

14. (Original) The personal area network of claim 13 further comprising a computer having a fourth wireless transceiver in communication with the second wireless transceiver, and an appliance having a fifth wireless transceiver in communication with the second wireless transceiver.

15. (Original) The personal area network of claim 1 wherein the device comprises a computer.

16. (Original) The personal area network of claim 15 further comprising a second computer having a third wireless transceiver in communication with the second wireless transceiver.

17. (Original) The personal area network of claim 1 wherein the device comprises an appliance.

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18. (Original) The personal area network of claim 17 further comprising a second appliance having a third wireless transceiver in communication with the second wireless transceiver.

19. (Currently Amended) A method of communication, comprising:

exchanging information over a wireless medium between a device having a first wireless transceiver and an adapter having a second wireless transceiver, a plug mated to a jack coupled to a local cable-based network backbone, and an interface adapted to facilitate communication between the second wireless transceiver and the local backbone; and

communicating at least a portion of the information between the adapter and the local backbone.

20. (Original) The method of claim 19 wherein the information exchange between the device and the adapter comprises using a Bluetooth protocol.

21. (Original) The method of claim 19 wherein the local backbone comprises a packet based network.

22. (Original) The method of claim 21 wherein the packet based network comprises a twisted pair telephone line.

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23. (Original) The method of claim 22 wherein the communication between the adapter and the packet based network comprises using a protocol for home communications over the twisted pair telephone line.

24. (Original) The method of claim 21 wherein the packet based network comprises an Ethernet line.

25. (Original) The method of claim 21 wherein the packet based network comprises a digital subscriber line.

26. (Original) The method of claim 19 wherein the device comprises a telephony device.

27. (Original) The method of claim 26 wherein the telephony device comprises a telephone, and the information exchange between the first and second wireless transceivers comprises exchanging voice signals.

28. (Original) The method of claim 27 further comprising exchanging information between a second telephone and the adapter, wherein the communication between the adapter and the local backbone comprises communicating at least a portion of the exchanged information between the adapter and each of the telephones.

29. (Original) The method of claim 27 further comprising exchanging information between a computer and the

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adapter, and exchanging information between an appliance and the adapter, wherein the communication between the adapter and the local backbone comprises communicating at least a portion of the exchange information between the adapter and each of the telephone, computer and appliance.

30. (Original) The method of claim 19 wherein the device comprises a computer.

31. (Original) The method of claim 30 further comprising exchanging information between a second computer and the adapter, wherein the communication between the adapter and the local backbone comprises communicating at least a portion of the exchanged information between the adapter and each of the computers.

32. (Original) The method of claim 19 wherein the device comprises an appliance.

33. (Original) The method of claim 32 further comprising exchanging information between a second appliance and the adapter, wherein the communication between the adapter and the local backbone comprises communicating at least a portion of the exchanged information between the adapter and each of the appliances.

34. (Currently Amended) A personal area network, comprising:

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a device having a first complementary metal-oxide semiconductor (CMOS) wireless transceiver; and

an adapter having a second CMOS wireless transceiver in communication with the first CMOS wireless transceiver, a connector capable of mating to a local cable-based network backbone, and an interface to interface adapted to facilitate communication between the second CMOS wireless transceiver ~~[[to]]~~ and the local backbone.

35. (Original) The personal area network of claim 34 wherein the first and second CMOS wireless transceivers each comprises a Bluetooth transceiver.

36. (Original) The personal area network of claim 34 wherein the interface provides an interface between the second CMOS wireless transceiver and the local backbone comprising a packet based network.

37. (Currently Amended) The personal area network of claim 36 wherein the interface provides an interface between the second CMOS wireless transceiver and the packet based network comprising a twisted pair telephone line.

38. (Original) The personal area network of claim 37 wherein the interface provides an interface between the second CMOS wireless transceiver and the packet based network using a protocol for home communications over a twisted pair telephone line.

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39. (Original) The personal area network of claim 37 wherein the interface provides an interface between the second CMOS wireless transceiver and the packet based network comprising an Ethernet line.

40. (Original) The personal area network of claim 37 wherein the interface provides an interface between the second CMOS wireless transceiver and the packet based network comprising a digital subscriber line.

41. (Original) The personal area network of claim 34 wherein the device comprises a telephony device.

42. (Original) The personal area network of claim 41 wherein the telephony device comprises a telephone.

43. (Original) The personal area network of claim 42 further comprising a second telephone having a third CMOS wireless transceiver in communication with the second CMOS wireless transceiver.

44. (Original) The personal area network of claim 43 further comprising a computer having a fourth CMOS wireless transceiver in communication with the second CMOS wireless transceiver, and an appliance having a fifth CMOS wireless transceiver in communication with the second CMOS wireless transceiver.

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45. (Original) The personal area network of claim 41 wherein the device comprises a computer.

46. (Original) The personal area network of claim 45 further comprising a second computer having a third CMOS wireless transceiver in communication with the second CMOS wireless transceiver.

47. (Original) The personal area network of claim 41 wherein the device comprises an appliance.

48. (Original) The personal area network of claim 47 further comprising a second appliance having a third wireless transceiver in communication with the second wireless transceiver.

49. (Currently Amended) A wall dongle, comprising:
a wireless transceiver;
a plug capable of mating to a jack coupled to a local
cable-based network backbone; and
an interface coupled to the plug and to the wireless
transceiver, and adapted to facilitate communication between the
wireless transceiver and the local backbone. ~~and~~
~~a wireless transeeiver coupled to the interface.~~

50. (Original) The wall dongle of claim 49 wherein the wireless transceiver comprises a Bluetooth transceiver.

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51. (Original) The wall dongle of claim 49 wherein the interface provides an interface between the wireless transceiver and the local backbone comprising a packet based network.

52. (Currently Amended) The wall dongle of claim 51 wherein the interface provides an interface between the wireless transceiver and the packet based network comprising a twisted pair telephone line.

53. (Original) The wall dongle of claim 52 wherein the interface provides an interface between the wireless transceiver and the packet based network using a protocol for home communications over a twisted pair telephone line.

54. (Original) The wall dongle of claim 51 wherein the interface provides an interface between the wireless transceiver and the packet based network comprising an Ethernet line.

55. (Original) The wall dongle of claim 51 wherein the interface provides an interface between the second wireless transceiver and the packet based network comprising a digital subscriber line.

56. (Original) The wall dongle of claim 49 wherein the plug is adapted to mate to an RJ-11 telephone jack.

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57. (Original) The wall dongle of claim 49 wherein the plug is adapted to mate to an RJ-45 Ethernet jack.

58. (Original) The wall dongle of claim 49 wherein the interface and wireless transceiver each comprises CMOS.

59. (Original) The wall dongle of claim 58 further comprising a substrate, the CMOS interface and wireless transceiver each being disposed on the substrate.

60. (Currently Amended) A method of interfacing a wireless communication medium to a local backbone, comprising:

using a wall dongle to exchange information with an external device over a wireless medium, the wall dongle having an adapter plugged into a jack coupled to a local cable-based network backbone, the adapter comprising a wireless transceiver and a network interface adapted to facilitate communication between the wireless transceiver and the local backbone; and

communicating at least a portion of the information between the wall dongle adapter and the local backbone.

61. (Canceled) The method of claim 60 wherein the information exchange comprises using a Bluetooth protocol.

61. (Currently Amended) The method of claim ~~[[19]]~~ 60 wherein the local backbone comprises a packet based network.

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62. (Original) The method of claim 61 wherein the packet based network comprises a twisted pair telephone line.

63. (Original) The method of claim 62 wherein the communication between the second wireless transceiver and the packet based network comprises using a protocol for home communications over the twisted pair telephone line.

64. (Original) The method of claim 61 wherein the packet based network comprises an Ethernet line.

65. (Original) The method of claim 61 wherein the packet based network comprises a digital subscriber line.

66. (Currently Amended) A device dongle, comprising:
a wireless transceiver;
a plug capable of mating to a jack coupled to a device;
an interface coupled to the plug and to the wireless transceiver, and adapted to facilitate communication between the wireless transceiver and the device; and
~~a wireless transeeiver coupled to the interface.~~
a housing enclosing the wireless transceiver and the interface.

67. (Original) The device dongle of claim 66 wherein the wireless transceiver comprises a Bluetooth transceiver.

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68. (Original) The device dongle of claim 66 wherein the interface provides an interface between the wireless transceiver and the device comprising a telephone.

69. (Original) The device dongle of claim 66 wherein the interface provides an interface between the wireless transceiver and the device comprising a computer.

70. (Original) The device dongle of claim 66 wherein the interface provides an interface between the wireless transceiver and the device comprising an appliance.

71. (Original) The device dongle of claim 66 wherein the plug is adapted to mate to an RJ-11 telephone jack.

72. (Original) The device dongle of claim 66 wherein the plug is adapted to mate to an RJ-45 Ethernet jack.

73. (Original) The device dongle of claim 66 wherein the interface and wireless transceiver each comprises CMOS.

74. (Original) The device dongle of claim 73 further comprising a substrate, the CMOS interface and wireless transceiver each being disposed on the substrate.

75. (Currently Amended) A method of interfacing a wireless communication medium to a device, comprising:

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using a device dongle to exchange information with an external device over a wireless medium, the device dongle having an adapter plugged into a jack coupled to the device, the adapter being enclosed within a housing and comprising a wireless transceiver and a network interface adapted to facilitate communication between the wireless transceiver and the device; and

communicating at least a portion of the information between the device dongle and the device.

75. (Canceled) The method of claim 75 wherein the information exchange comprises using a Bluetooth protocol.

76. (Original) The method of claim 75 wherein the device comprises a telephone.

77. (Original) The method of claim 75 wherein the device comprises a computer.

78. (Original) The method of claim 75 wherein the device comprises an appliance.

79. (Currently Amended) A communications network, comprising:

a communication device;

a ~~device~~ first dongle having a first wireless transceiver and a plug capable of mating to a jack coupled to the communication device;

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a second dongle comprising a second wireless transceiver in communication with the first wireless transceiver and a plug capable of mating to a jack coupled to a local cable-based network backbone;

a local cable-based network backbone coupled to the second wireless transceiver; and

an Internet gateway coupled to the local backbone.

80. (Original) The communications network of claim 79 wherein the first and second wireless transceivers each comprises a Bluetooth transceiver.

81. (Original) The communications network of claim 79 wherein the local backbone comprising a packet based network.

82. (Currently Amended) The communications network of claim 81 wherein the packet based network comprising a twisted pair telephone line.

83. (Original) The communications network of claim 82 wherein the second wireless transceiver is in communication with the packet based network using a protocol for home communications over a twisted pair telephone line.

84. (Original) The communications network of claim 81 wherein the packet based network comprising an Ethernet line.

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85. (Original) The communications network of claim 81 wherein the packet based network comprising a digital subscriber line.

86. (Original) The communications network of claim 79 wherein the device comprises a telephony device.

87. (Original) The communications network of claim 86 wherein the telephony device comprises a telephone.

88. (Original) The communications network of claim 87 further comprising a second telephone having a third wireless transceiver in communication with the second wireless transceiver.

89. (Original) The communications network of claim 88 further comprising a computer having a fourth wireless transceiver in communication with the second wireless transceiver, and an appliance having a fifth wireless transceiver in communication with the second wireless transceiver.

90. (Original) The communications network of claim 79 wherein the device comprises a computer.

91. (Original) The communications network of claim 90 further comprising a second computer having a third wireless

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transceiver in communication with the second wireless transceiver.

92. (Original) The communications network of claim 79 wherein the device comprises an appliance.

93. (Original) The communications network of claim 92 further comprising a second appliance having a third wireless transceiver in communication with the second wireless transceiver.

94. (Original) The communications network of claim 79 wherein the Internet gateway comprises a cable modem.

95. (Currently Amended) A communications network, comprising:

a plurality of devices, each of which is connected to an adapter via a connector, wherein each adapter comprises ~~having~~ a wireless transceiver;

a local backbone;

an access point to the local backbone, the access point ~~having~~ being connected to an access adapter via a connector, wherein the access adapter comprises an access wireless transceiver in communication with the wireless transceiver for each of the ~~devices~~ adapters; and

an Internet gateway coupled to the local backbone.

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96. (Original) The communications network of claim 95 wherein the wireless transceivers and the access wireless transceiver each comprises a Bluetooth transceiver, the local backbone comprises a twisted pair telephone line, and the Internet gateway comprises a cable modem.

97. (Original) The communications network of claim 96 wherein the devices comprise a plurality of telephones, a plurality of computers and a plurality of appliances.

98. (Currently Amended) A method of communication, comprising:

providing a device connected to a first adapter via a first connector, the first adapter comprising a first wireless transceiver;

providing an access point to a local backbone, the access point connected to a second adapter via a second connector, the second adapter comprising a second wireless transceiver;

exchanging information over a wireless medium between [[a]] the device and [[an]] the access point ~~to a local backbone~~ using the first and second wireless transceivers;

communicating at least a portion of the information between the access point and the local backbone; and

coupling the communicated information between the local backbone and an Internet gateway.

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99. (Original) The method of claim 98 wherein the information exchange between the device and the access point comprises using a Bluetooth protocol.

100. (Original) The method of claim 98 wherein the local backbone comprises a packet based network.

101. (Original) The method of claim 100 wherein the packet based network comprises a twisted pair telephone line.

102. (Original) The method of claim 101 wherein the communication between the access point and the packet based network comprises using a protocol for home communications over the twisted pair telephone line.

103. (Original) The method of claim 100 wherein the packet based network comprises an Ethernet line.

104. (Original) The method of claim 100 wherein the packet based network comprises a digital subscriber line.

105. (Original) The method of claim 98 wherein the device comprises a telephony device.

106. (Original) The method of claim 105 wherein the telephony device comprises a telephone, and the information exchange between the first and second wireless transceivers comprises exchanging voice signals.

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107. (Currently Amended) The method of claim 106 further comprising exchanging information between a second telephone and the ~~adapter~~ access point, wherein the communication between the ~~adapter~~ access point and the local backbone comprises communicating at least a portion of the exchanged information between the ~~adapter~~ access point and each of the telephones.

108. (Currently Amended) The method of claim 106 further comprising exchanging information between a computer and the ~~adapter~~ access point, and exchanging information between an appliance and the ~~adapter~~ access point, wherein the communication between the ~~adapter~~ access point and the local backbone comprises communicating at least a portion of the exchange information between the ~~adapter~~ access point and each of the telephone, computer and appliance.

109. (Original) The method of claim 98 wherein the device comprises a computer.

110. (Currently Amended) The method of claim 109 further comprising exchanging information between a second computer and the ~~adapter~~ access point, wherein the communication between the ~~adapter~~ access point and the local backbone comprises communicating at least a portion of the exchanged information between the ~~adapter~~ access point and each of the computers.

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111. (Original) The method of claim 98 wherein the device comprises an appliance.

112. (Currently Amended) The method of claim 111 further comprising exchanging information between a second appliance and the ~~adapter~~ access point, wherein the communication between the ~~adapter~~ access point and the local backbone comprises communicating at least a portion of the exchanged information between the ~~adapter~~ access point and each of the appliances.

113. (Original) The method of claim 98 wherein the Internet gateway comprises a cable modem.

114. (New) The method of claim 60 wherein the information exchange comprises using a Bluetooth protocol.

115. (New) The method of claim 75 wherein the information exchange comprises using a Bluetooth protocol.